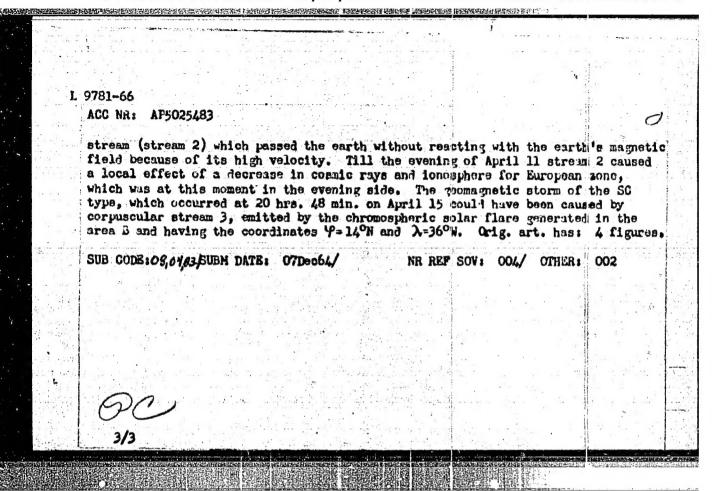
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ACC NR: AT5025483

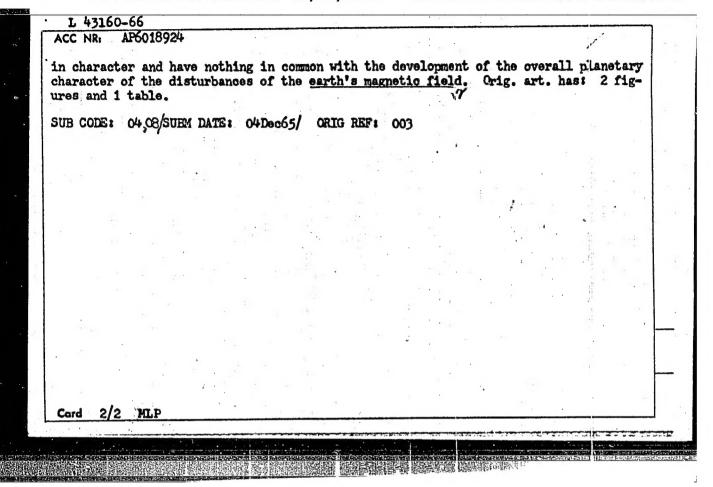
high latitude stations (up to 50° of geomagnetic latitude) were used in the study by taking the parameters f_{\min} and f_0F2 from ionospheric data. Graphs were plotted on the dependence of time (t) of the anomaly reginning on the effective latitude λ (in coordinates λ vs. t and λ vs. t; where Δ t is the duration of anomalous absorption in the polar cap). The heliophysical phenomena were investigated for the same period. Two active areas (A and B) were present in the sun during the period from March 30 to April 20 (See Solnechnye dannye, 1958, No. 4. and Quart. Bull. Solar Activity, 1958, No. 2). The entire complex of disturbances which occurred between April 10 and 20 was tentatively explained on the casis of these data. The flocculus in area A emitted, on April 8, a corpuscular stream (stream 1) of low velocity which reached the earth orbit and caught the earth on April 14, causing a storm with a gradual beginning (the earth entered the stream from the lateral side). The chromospheric solar flare (Ψ =11°N, λ =40°W) occurred at 14 hrs. 30 min. in the region B of the sun (eastern part, latitude \sim 10-20°N). It generated high-energy particles causing an anomalous absorption in the polar cap on April 10. The prolonged wandering of particles in space was caused by the presence of stream 1 and segmetic heterogeneity. This explained also the isotropic intrusion of particles into the ionosphere of the entire polar cap. The same flare emitted another corpuscular

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1 28902-66 BIT(1) ACC NR AP6019172 SOURCE CODE: UR/0251/65/039/003/0555/0560 AUTHOR: Gachechiladze, R. G.; Khocholava, G. M. ORG: Institute of Geophysics, AN GruzSSR (Institute geofiziki AN GruzSSR) TITLE: Problem of anomalous absorption in the polar cap SOURCE: AN GruzSSR. Soobshcheniya, v. 39, no. 3, 1965, 555-560 TOPIC TAGS: solar flare, solar chromosphere, solar radio emission, ionospheric sounder, solar corpuscular radiation, magnetic storm, solar radiation absorption, ABSTRACT: This study is devoted to a detailed investigation of a particular case of anomalous polar cap absorption associated with the chromospheric flare of 7 July 1958. anomalous polar cap absorption associated with the chromospheric flare of 7 July 1958. The authors used data from vertical soundings of the ionosphere at 67 stations in the northern and 34 stations in the southern hemisphere. The particular flare was of importance 3+ and it and the related active region are described. This flare was of accompanied by powerful solar radio emission at all frequencies; the conset of the flare coincided with a type-II radio burst and the maximum of the flare coincided earth system is analyzed. The entire development of the process in the sun-space-the earth's orbit and caused a geomagnetic and an ionospheric storm, as well as earth current and cosmic ray storms. When the earth entered the corpuscular stream particles with 1 Mey or less penetrated into the ionosphere over the auroral zone along the lines of force, thereby causing anomalous type-II absorption. The technique used in detecting the time of anomalous absorption is described. The anomalous absorption began simultaneously at all stations in the northern hemisphere southward to latitude began simultaneously at all stations in the northern hemisphere southward to latitude A= 64°. This paper was presented by Corresponding Member AN GruzsaR, Academician M.M. Mirianashvili on 14 January 1965. Orig. art. has: 4 figures and 2 formulus. [JPR5] SUB CODE: 03, 08 / SUBM DATE: 14Jan65 / ORIG REF: 007 / OTH REF: Card 1/1

UR/0203/66/006/003/05881/0589 AP6018924 SOURCE CODE: LACC NR Khocholava, G. M.; Gachechiladze, R. G. AUTHOR: Institute of Geophysics, AN GrusSSR (Institut geofiziki AN GrusSSR) Nature of disturbances in the F2 region of the ionosphere at middle latitudes SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 3, 1966, 588-589 TOPIC TAGS: tonospheria disturbance, Flayer, Earth magnetic field, geomognetic disturbance ABSTRACT: In an analysis of the character of ionospheric disturbances at middle latitudes, use was made of data obtained from vertical sounding of the ionosphere during the IGY by six stations located in the latitude range of 02-65°N. The initial data employed were the critical frequencies of the F2 layer. Graphs were plotted for deviations of these frequencies from the normal level (F2, \$). The disturbance pattern was studied by using different methods of processing the data, in order to determine whether positive disturbances are due to errors inherent in the method itself or whether they actually occur at middle latitudes. The following conclusions were reached: (1) the median calculated for magnetically quiet days can be used at all latitudes; (2) positive disturbances are observed only at low (equatorial) latitudes, and also during winter months at geomagnetic latitudes above 47° (nocturnal winter anomaly); (3) positive disturbances are lacking at middle latitudes. Isolated cases of positive distribances observed by some stations at middle latitudes are strictly local 550.388.2 UDC: Card



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SOURCE CODE: UR/0169/66/000/007/A052/A052

26

AUTHOR: Abuladze, N. B.; Khocholava, G. M.; Chikovani, D. S.

TITLE: Some parameters of type Sc geomagnetic storms

SOURCE: Ref. zh. Geofizika, Abs. 7A317

REF SOURCE: Sb. Nekotoryye vopr. issled. elektromagnitn. polya Zemli, no. 1(23), Tbilisi, Metsniyereba, 1965, 46-51

TOPIC TAGS: storm, magnetic storm, geomagnetic storm, anomalous absorption, polar cap, geomagnetic latitude

ABSTRACT: Some parameters of fluxes for magnetic storms following anomalous absorption in the polar cap (AAPC) were investigated on the basis of data obtained at the Dusheti Magnetic Observatory and the ionospheric data for the IGY. These parameters are compared with the parameters of usual fluxes. Also, AAPC dynamism in the period of the development of a geomagnetic storm was studied. On the basis of the condition that the energy density of the corpuscular flux at the boundary of the magnetosphere and that of the geomagnetic field are equal, the authors derive a formula connecting the magnetospheric radius R with the increase

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| of the geome R and flux of in comparist larger R and magnetic fire experiments absorption. geomagnetic | ensities name of the control of the | are calculationary stored. It is stanoted that the geomegence is e | ated for var ms, the sto ted that der there is a d agnetic latit | ious storm orms corre iser fluxes livergence i ude of the e sticeable at | s. It is a lated with possess between t external a | concluded h AAPC } more int heoretications of an | d that have a ensive al and nomalo | a: |
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SOURCE CODE: UR/0169/66/000/007/A042/A043

AUTHOR: Katsiashvili, N. A.; Matsaberidze, V. S.; Khocholava, G. M.

TITLE: Magneto-ionospheric disturbances correlated with anomalous absorption in the polar cap

SOURCE: Ref. zh. Geofizika, Abs. 7A254

REF SOURCE: Sb. Nekotoryye vopr. issled. elektromagnitn. polya Zemli. No. 1(23). Tbilisi, Metsniyereba, 1965, 52-61

TOPIC TAGS: ionospheric disturbance, geomagnetic disturbance, anomalous absorption, geomagnetic storm, polar cap absorption

ABSTRACT: Magneto-ionospheric disturbances correlated with anomalous absorption in the polar cap (AAPC) were studied on the basis of data for the International Geophysical Year obtained at the Dusheti Magnetic Observatory and at 12 Soviet Ionospheric stations. Their characteristics are compared with storms which are not correlated with AAPC. The following conclusions were reached:

1) Sc* type geomagnetic storms with a preliminary negative momentum (for Dusheti) have almost no correlation with AAPC; 2) the presence of the preliminary

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UDC: 550, 338, 2:550, 385, 4

ACC NRI AR6032354

negative momentum is explained by the influence of the daily course of disturbed $\mathbf{S}_{\mathbf{D}}$ variation; however, the Zinger hypothesis on the influence of hydromagnetic waves is not excluded from the investigation; 3) in the majority of cases, sharper and deeper subsidence into H is characteristic of geomagnetic storms which correlate with AAPC; this is explained by the high energy of fluxes which cause these storms; 4) the conclusion of Hokura that in the period of AAPC the state of the F2 layer is normal before the start of the geomagnetic storm, a fact indicates that the AAPC is of a local nature, is confirmed by numerous data; 5) the majority of ionospheric disturbances connected with AAPC are negative; 6) the amplitude of the F2 layer disturbances decreases, while the delay time in relation to the magnetic storm increases with a decrease in latitude, which demonstrates the corpuscular nature of the agent responsible for this phenomenon; 7) the delay time of the start of an ionospheric disturbance in relation to a magnetic storm depends on whether at the start of the storm the station is within or outside of the forbidden zone; 8) in the majority of cases, a lowering of foF3 is accompanied by a sharp increase layer, white at normal layer heights fall? rises. I. Kovalewskiy. [Translation of abstract] [Tw]

SUB CODE: 20, 04/

Card 2/2

ACC NR. AR6035547

SOURCE CODE: UR/0269/66/000/010/0058/0068

AUTHOR: Gachechiladze, R. G.; Khocholava, G. M.

TITLE: Ionospheric disturbances caused by great chromospheric flares

SOURCE: Ref. zh. Astronomiya, Abs. 10.51.419

REF SOURCE: Sb. Nekotoryye vopr. issled. elektromagnitn. polya Zemli. No. 1(23). Tbilisi. Metsniyereba, 1965, 62-73

TOPIC TAGS: ionospheric disturbance, solar flare, ionospheric absorption, magnetic storm, anomalous ionospheric absorption, polar cap, corpuscular stream

ABSTRACT: Several cases of type-III anomalous absorption recorded for the period July 1957—July 1960, are investigated. The possibility of a connection between some periods of anomalous ionospheric absorption in the polar cap and solar flares of force 2 and 2⁺ is suggested. Two types of anomalous absorption, "simultaneous" and the "gradual" types, have been detected in the polar cap. The phenomena of type-I start with a small delay following the start of a solar flare (most frequently in the western section of the solar disk) and embrace the entire polar cap simul-

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ACC NRI AR6035547

taneously. Type II phenomena start at one or several stations and gradually embrace the entire polar cap but in the first 10 to 15 hours the absorption is not total. Generally, these cases follow flares occurring in the eastern solar hemisphere. It is supposed that the magnetic field intensity of the corpuscular stream may be one of the factors determining the division of anomalous absorption in the polar cap into two types. Daily variations and the duration of anomalous absorption in the polar cap are investigated. The evolution of anomalous absorption may be divided into three stages: prior to, during, and following the magnetic storm. On the basis of experimental data, a mechanism of the origin of all the three stages of anomalous absorption is suggested. Bibliography has 20 titles. I. Odintsova. [Translation of abstract] [DW]

SUB CODE: 03/

Card 2/2

ACC: NR: AT6028209

SOURCE CODE: UR/2502/65/001/000/0062/0073

AUTHOR: Gachechiladze, R. G.; Khocholava, G. M.

ORG: none

TITLE: Ionospheric perturbations caused by large chromospheric flares

SOURCE: AN GruzSSR. Institut geofiziki. Trudy, v. 1(23), 1965. Nekotoryye voprosy issledovaniya eletromagnitnogo polya Zemli (Some problems in the investigation of the earth's electromagnetic field), 62-73

TOPIC TAGS: solar chromosphere, solar flare, ionospheric disturbance, ionospheric absorption

ABSTRACT: This paper studies all cases of type III anomalous absorption recorded from July 1957 to June 1960 in the polar cap and the laws governing it. The material used is from the world data center for IGY Moscow (mirovoy tsentr dannykh MGG). The topics discussed include the relationship between anomalous absorption and solar activity. It is noted that of the 37 cases in the polar cap 29 may be linked to chromospheric flares of intensity 3 and 3+, and the other eight to flares of intensity 2 and 2+. Two types of anomalous absorption in the polar cap corresponding to the "early" and "late" types of Sakurai are considered. Daily variation and length of anomalous absorption in the solar cap where absorption continuously increases for about one day and deteriorates over several days is discussed: one flare causes 2-3 days

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KHOCHOLAVA, I. A.

Khocholava, I. A.: "A more precise calculation of input coefficients of raw tea per unit of finished product", (For four tea factories of the Chay-Gruziya Trust), - In index: A. A. Khocholava, Byulleten' Vsesoyuz. mauch. p issled. in-ta chaya i subtrop. kul'tur, 1948, No. 3, p. 104-08.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).

KHOCHOLOVA, I. A.

Khocholova, I. A.: "On the selection of finished tea", (For four tea factories of the Chay-Gruziya Trust), Byulleten'Vsesoyuz. nauch. -issled. in-ta chaya i subtrop. kul'tur, 1948, No. 4, p. 114-21.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).

Name: KHOOHOLAV, Ivan Andreyevich

Dissertation: Technology of Tea

Degree: Dos Tech Soi

Affiliation: All-Union Sci Res Inst of the Tea Industry

Defense Date, Place: 5 Jun 56, Council of Georgian Order of Labor Red Banner Agr Inst

Certification Date: 12/Jan 57

> Source: BMV0 7/57

KHOCHOLAYA, I.A., doktor tekhn.nauk

Peaks in the tea industry and ways of eliminating them. Trudy VMIICHP no.1:3-15 '58. (MIRA 12:5) (Tea trade)

DAVITAYA, I.P., professor; KBOCHOLAVA, K.H.

Intracerebral pneumocephalus. Vop.neirokhir. 20 no.2:55-57 Mr-Ap 156.
(MLRA 9:7)

1. Is fakul'tetskoy khirurgicheskoy kliniki lechebnogo fakul'teta Tbilisskogo meditsinskogo instituta (BRAIN, dis.

pneumocephalus caused by gunshot wound of brain) (WOUNDS AND INJURIES

gunshot wound of brain causing pneumocephalus)

NOSACH, Ye.G.; KHOCHOLAVA, V.N., inzh.

Phase registration of the disconnection of short-circuits by switches. Energetik 11 no.1:17-18 Ja '63. (MIRA 16:1) (Electric power distribution). (Electric protection)

KHODA, V. (Odessa)

Coating the chassis with lacquer. Radio no.6:56 Je '57. (MIRN 10:7) (Radio-Apparatus and supplies)

KHODABA, A. I.

USSR/Pharmacology. Toxicology. Tranquilizers

V

Abs Jour : Ref Zhur - Biol., No II, 1958, No 51905

Author : Galenko V. Ye. Khodaba A.I.

Inst: : Title:

: Experimental Application of Serpasil in Psychiatric Diseases

Orig Pub: V. sb. Vopr. psikhiatrii, Vyp 2, M., 1957, 36-58

Abstract : No abstract

Card : 1/1

KHODAK, A. N

N/5 615.918 .Nl

Nomenklaturnyy spisok detaley oborudovaniya, podlezhashchikh plamennoy poverkhnostnoy zakalke (Classed List of Equipment Subject to Flaming Case Hardening, by) M. V. Naboka, P. I. Rodzevich, A. H. Khodak. Khar'kov, metallurgizdat, 1952.

71 p.

At head of title: Russia. Nauchnoissledovatel'skoye byuro organizatsiy proizvodstva chernoy metallurgii.

RAYKO, V.V.nauchnyy sotrudnik; VOLKOV, Ya.R. nauchnyy sotrudnik; LEVITSKIY,
D.A.nauchnyy sotrudnik; VOLKOV, Ya.R. nauchnyy sotrudnik; LEVITSKIY,
inshener; VORDINOV, N.I. inshener; GRISHAIE, N.N. inshener;
SHULTATSKIY, D.I., inshener, redaktor; ANDREYEV, S.A., tekhnicheskiy
redaktor

[Rules for the technical operation of cranes] Pravila tekhnicheskii
ekspluatatsii pod emykh kranov, Rhar'kov, Gos. nauchno-tekhn. indvo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 167 p.
(MLRA 10:5)

1. Russia (1923 U.S.S.R.) Ministerstvo chernoy metallurgii.
2. Vessoiyanyy nauchno-issledovatel'skiy institut organizatsii
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3. Otdel glavnogo mekhanika Ministerstva chernoy metallurgii. (for
Shulyatskiy) 4. Zavod "Asovstal'" (for Ratner) 5. Zavod "Zaporozhutal'"
(for Vorodimov, Grishayev)

(Granes, derricks, etc.)

RAYKO, V.V., neuchnyy sotrudnik; NIKBERG, I.M., neuchnyy sotrudnik;

KHODAK, A.N., neuchnyy sotrudnik; FEVKLUSHCHIY, A.I., neuchnyy
sotrudnik; VOLKOV, Ya.R., neuchnyy setrudnik; PEYCHEV, G.P., otv.
rod.; IPATOV, P.P., rod.; SHULYATSKIY, D.M., rod.; BURKSER, L.D.,
red.; BALASEVICH, Yu.Yu., rod.; SVETCHENKO, V.N., rod.; KRYLOVSKIY,
A.P., rod.; SIHYAVSKAYA, Ye.K., rod.izd-va; ANDREYEV, S.P., tokhn.rod.

[Regulations for operating the mechanical equipment of rolling mills] Pravila tekhnicheskoi ekspluatatsii mekhanicheskogo oborudovaniia prokatnykh tsekhov. Khar'kov. Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii. 1959. 247 p. (MIRA 12:51)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy insitut organizatsii proizvodstva i truda chernoy metallurgii. 2. Vsesoyuznyy
nauchno-issledovatel'skiy institut organizatsii proizvodstva i truda
chernoy metallurgii (VNIIOChERMET) (for Rayko, Nikberg, Khodak, Nevedushchiy, Volkov). 3. Otdel glavnogo mekhanika byvshego Ministerstva
chernoy metallurgii SSSR (for Ipatov, Shulyatskiy). 4. Zavod imeni
Dzerzhinskogo (for Burkser, Balasevich). 5. Zavod imeni Kirova (for
Svetchenko). 6. Zavod imeni Voroshilova (for Krylovskiy).

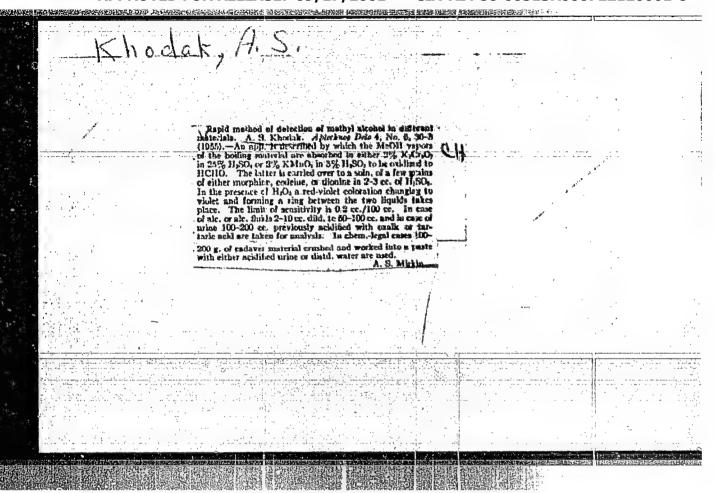
(Rolling mills--Equipment and supplies)

EHODAK, A.S., (Bryansk).

Determination of small concentrations of ethyl alcohol, Apt.delo 2 no.25 (MLRA 6:5)

(GA 47 no.16:7949 '53)

(GA 47 no.16:7949 '53)



KHODAK, A.S.

in biological materials and pharmaceutical preparations. Apt.dello 6 no.1:42-45 Ja-7 157. (MERA 10:3)

l. Is byuro sudebno-meditsinskoy ekspertisy Bryanskoy oblasti (nachal*nik S.P.Zubkov) (ETHYL ALCOHOL)

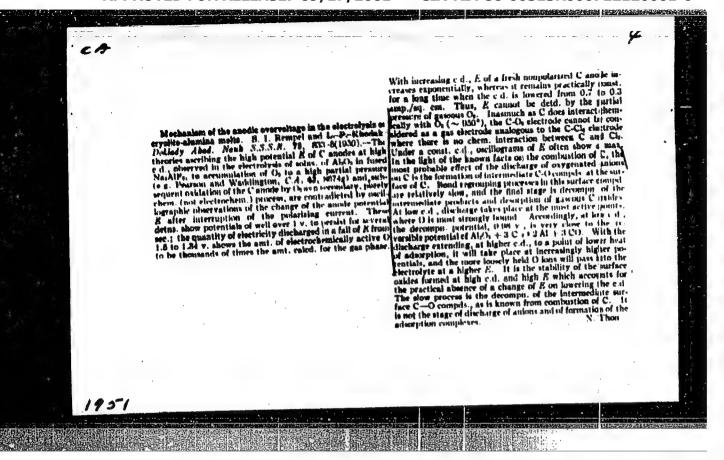
BRODSKIY, I.I., insh.; GNILENKO, B.A.; KRYUKOV, G.Ya.; MARSHAK, V.I.; KHODAK; I.Z.

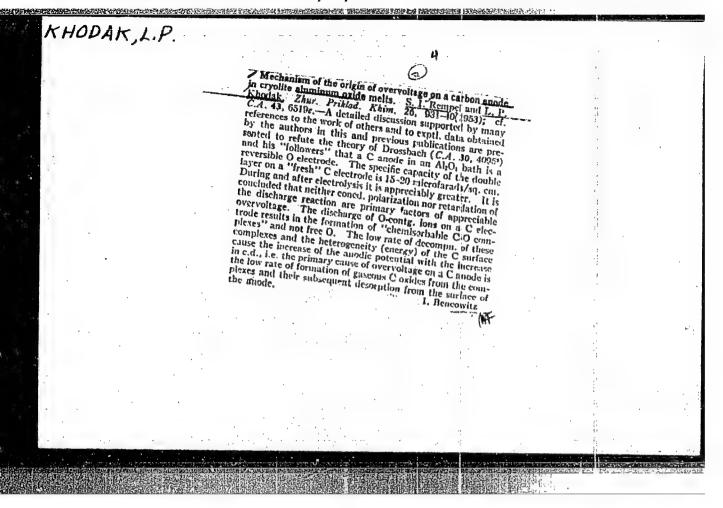
Modernization of a continuous pipe-rolling mill. Makh.i avtom. proixv. 14 no.1:24-26 Ja '60. (MIRA 13:5)
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KHCDAK, K. H.: "The functional state of the higher portions of the contral nervous system in various phases and in various clinical forms of rheumatism in children." Khar'kov Medical Inst. Khar'kov, 1956.

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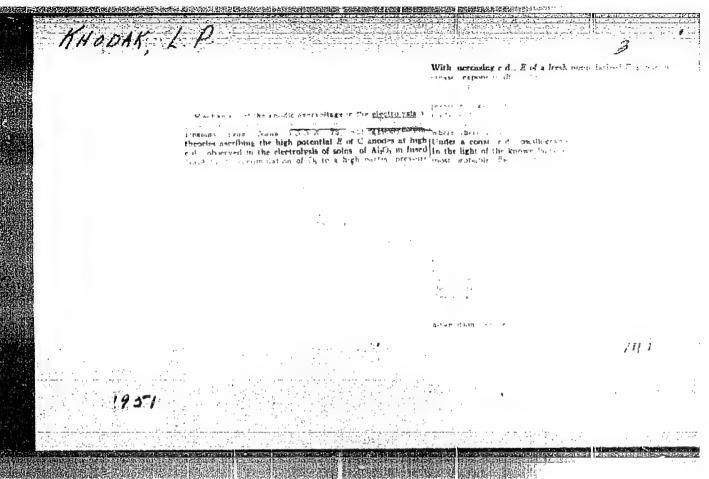
So: Knizhnaya letopis', No 23, 1956.





| KHODAK L. P. | | |
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KHODAK, L. P. USSR/Chemistry - Physical chemistry 1 Pub. 22 - 27/48 Rempel', S. I.; Anisheva, N. A.; and Krodak, L. P. Authors Title 2 Comparison gas-electrods for measurements of cryolite-alumina fusions 9 Dok. AN SSSR 97/5, 859-862, August 11, 1954 Abstract The characteristics of various gas comparison-electrodes, used for the measurement of cryolite-alumina fusions, are analyzed. The oxygencarbon electrode is considered to be the most stable comparison electrode and because of its high accuracy is best recommended for measurements of cryolite-alumina fusions. Means of securing composition constancy of the gaseous mixture surrounding the comparison electrode and to prevent anode gases from falling into the gas mixture, are described. Five USSR references (1944-1953). Graph; drawing. Institution : Acad. of Sc. USSR, Ural Branch, Institute of Chemistry and Metallurgy Presented by : Academician A. N. Frumkin, April 3, 1954,



SUSHKOV, Akim Ivanovich; TROITSKIY, Ivan Alekseyevich; EYDENZOU, Moisey
Aronovich; KHUDAK, L.P., kand.tekhn.nauk, red.; IVANOV, A.I., inzh.
red.; RHWPET, S.I., prof. doktor tekhm.nauk, red.; LUCHKO, Yu.V.,
red.isd-va; ZEF, Ye.M., tekhn.red.

[Metallurgy of light metals] Metallurgita legkikh metallov.
Sverdlovsk, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi
metallurgit, Sverdlovskoe otd-nie, 1957. 510 p. (MIRA 11:2)

(Idght metals--Metallurgy)

SOV/137-58-12-24284

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 51 (USSR)

AUTHOR: Khodak, L. P.

The Principle Underlying the Plotting of the Energy Balance of a Cell TITLE:

(K voprosu o printsipe postroyeniya energeticheskogo balansa elek-

trolizera)

PERIODICAL: Tr. In-ta metallurgii. Urali skiy fil. AN SSSR, 1957, Nr 1, pp

139-143

ABSTRACT: A correlation of the processes proceeding in pyrometallurgical installations and electrolysis baths (EB) leads to the conclusion that it is

impossible to apply the principle employed in compiling the heat balance of metallurgical furnaces (addition of exothermic processes within the installation to the balance) to that of EB energy balances. In the energy balance of an EB the major item of input is the energy of the electric current, while the major output items are the energy

requirements for increasing the heat content of the flow of material passing through the EB (including that required for initial heating of

the materials) and the energy required for the compensation of the Card 1/1 heat loss into the ambient medium.

SOV/137-59-1-460

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 58 (USSR)

Khodak, L. P., Rempel', S. I., Kuznetsov, S. I. AUTHORS:

On the Effect of Periodic Charging of Raw Materials on the Energy Balance in an Electrolytic Bath (O vliyanii periodicheskikh TITLE:

zagruzok syr'ya na energeticheskiy rezhim elektroliznoy vanny)

PERIODICAL: Tr. In-ta metallurgii. Ural'skiy fil. AN SSSR, 1957, Nr 1, pp 144-148

ABSTRACT: Utilizing the case of an Al bath as an example, the authors analyze the significance of the heat of dissolution of raw materials introduced into the bath in batches and the significance of an increase in

electrical potential occurring in the bath during periods between charging on energy-balance equations for an electrolytic bath. In computing variations in heat content of a system undergoing an electrochemical reaction, e.g.: Al2O3+1-1/2C -2Al+1-1/2CO2, the right-hand side of the equation must show the Al2O3 in the form

in which it is introduced into the bath rather than in the form of Al2O3 already dissolved in the electrolyte. In computing the ener-

gy balance, the alumina (A) must appear in the same form as that Card 1/2

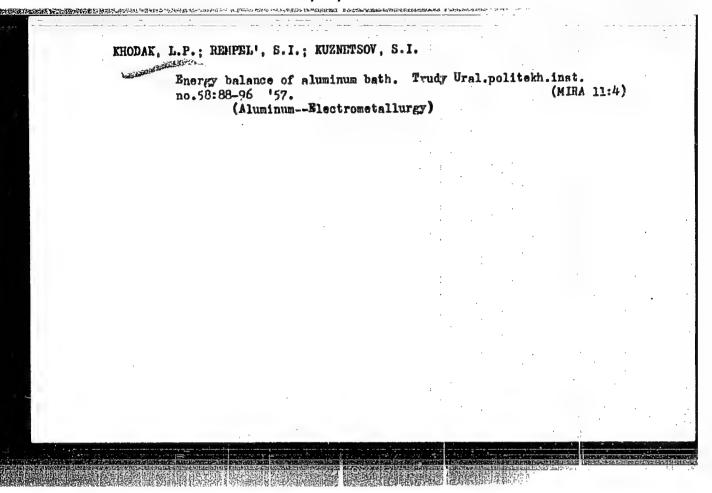
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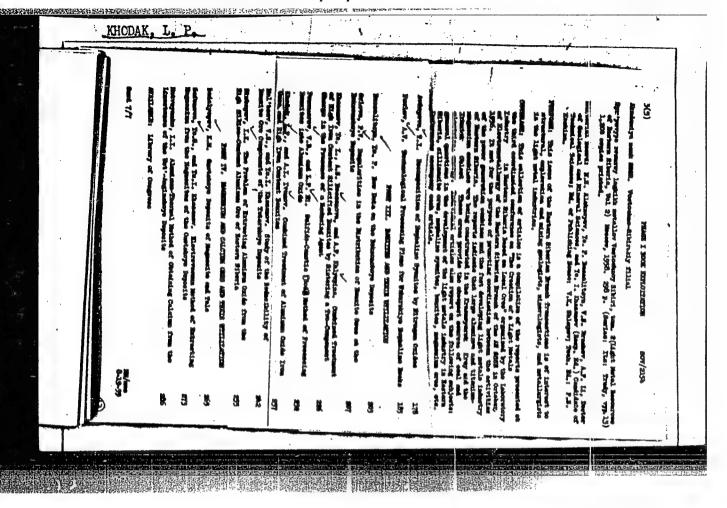
On the Effect of Periodic Charging of Raw Materials on the Energy Balance (cont.)

in which it appears in the material balance. An increase in the electrical potential of the bath, which occurs as the concentration of A in the electrolyte is reduced, results in the consumption of an additional quantity of electrical energy $\mathbf{Q}_{\mathbf{g}}$. If the increase in potential is brought about merely by a change in the concentration of A, then $Q_g = \Delta Z_p$, where ΔZ_p is the change in the isobaric-isothermal potential of the system. If other causes also are active, the magnitude of the ΔZ_p will be fully compensated by the electrical energy supplied externally. The magnitude of the Q_g will be the sum of two items: $Q_g = \Delta Z_p + Q'_1$, where Q'_1 represents the additional quantity of electrical energy consumed in the bath as a result of an increase in the potential due to any causes aside from a change in the concentration of the ${f A}$ Being a separate item on the input side of the energy-balance equation, the heat of dissolution of the raw material in the electrolyte must not be taken into consideration. A method permitting computation of the mean increase of potential in electrolyzers operating with raw material introduced periodically is given together with the computation of the mean value of the potential increase in an Al bath (this value being 0.105 v in said instance). In computing variations in the heat content of a system undergoing an electrochemical reaction the output side of the balance equation must be based on thermodynamic data for solid rather than dissolved A.

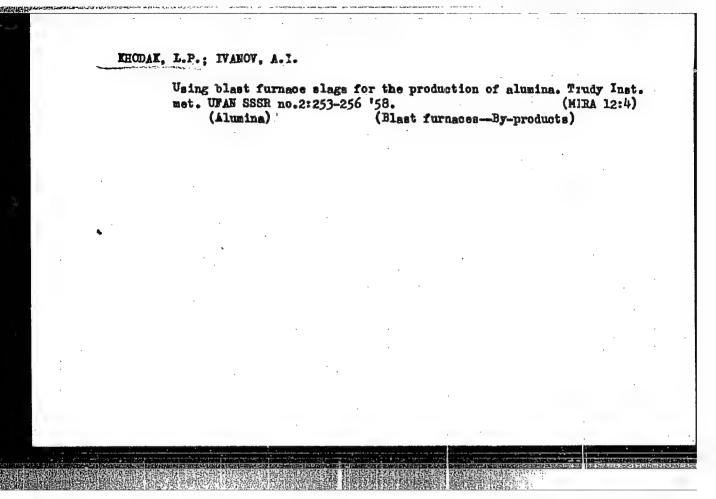
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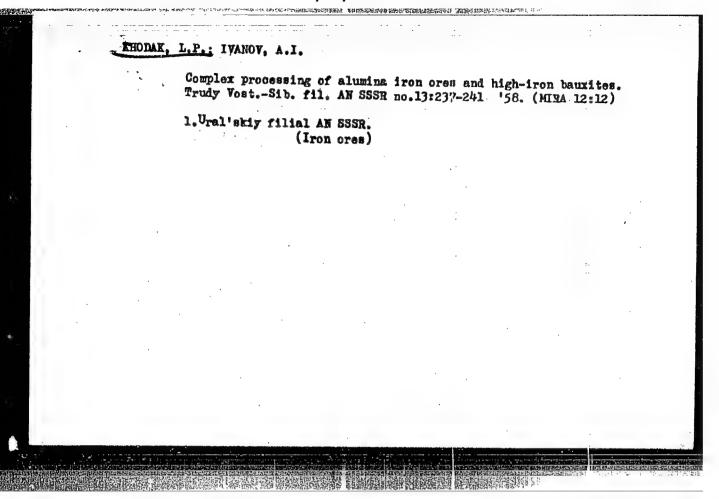
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| Squeachaniys po elektrokhimii. Ath, Moseow, 1956. Squeachaniys po elektrokhimii. Ath, Moseow, 1956. Trudy; [sbornik] (Transactions of the Fourth Conference on Electron of Artisles 1950. Trochemistry: Collection of Artisles 1960cow, izd-ro AN SSM. 1959. 666 P. Errata alip inserted. 2,500 copies printed. Sponsoris Agency: Akademiya nauk SSSM. Otdeleniye talsitchestikh Rank. Raitorial Board: A.M. Prumkin (Resp. Ed.) Academician, O.A. Yesin, Frofessor; S.I. Zhdanow (Resp. Secretary). B.M. Kabanow, Frofessor; S.I. Zhdanow (Resp. Secretary). B.M. Mabanow, Frofessor; Frofessor; S.I. Zhdanow (Resp. Secretary). B.M. Mabanow, Frofessor; Ed. Str., Doughow, Frofessor; S.I. Zhdanow (Resp. Secretary). | Lakortser, Frotescor, Z.A. Solov'Naval T | Posenko, A.S., T.M. Abrasova and I.M. Garkina (Institut fizitherioy khimirin USR-Institute of Prystal Cormistry AS ORESSA). Mechanism (Free Correction of Iron, Magnesium, Zine and Almanum With the Aid of Meavy Orygen Isotopes Dissussion [A.M. Ginzberg, A.P. Tomilay, P.D. Lukovisev, O.A. Tedoradze and contributing suthors; PART IV. RIZCINODE PROCESSES IN PUSIONS | Tesin, O.A. (Ural akiy politekinicheskiy institut būral Paly- rennic institute). Electrode Processes in Pared Oxides 311 Florigita of Stering E. Electrode of Montanelli (Italy). Investigation of Overvoltage Pariosena in Puer 323 Salte) | Asymptow—Yu. V., and M.S. Mittento (leningradati politetini- cheshiy institut iseni M.I. Kalinia. Leningrad Politetini- Institute izeni M.I. Kalinia). Investigating fon Exemic Betseen a Fused Meta and Its 3ait With the Madon Exemings active isotopes Mashovete, V.P. and A.A. Revaryan (Passyurnyy alpuniniyeve- magniyevy) Institute A.A. Revaryan (Passyurnyy alpuniniyeve- magniyevy) Institute A.A. Revaryan (Passyurnyy alpuniniyeve- magniyevy) Institute A.B. Revaryan (Passyurnyy alpuniniyeve- magniyevis and M.A. M. Revaryan (Passyurnyy alpunininiyeve- magniyevis and M.A. M. Revaryan (Passyurnyy alpunininini) magniyevis and M.A. M. Revaryan (Passyurnyy alpuninininininininininininininininininini | Rempel', S.L., L.P. Khodak, and M.A. Anisheva (Ural'skiy Islackholisherky) Thrittertwin Inside the Poret Technology). Machanism of the Instance of Poret Technology. Machanism of the Interaction Between Oxygen and Antiple, L.M. (Urel Polyechnic Institute). Role of Netal-Tused-Salt Equilibrium in Mectrode Processes Card 13/34 |
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KHODAK, L.P.; KUZNETSOV, S.I.; IVAHOV, A.I.; SEMBRENNIKOVA, O.Y.;
MODEVA, N.G.

Obtaining alumina from blast furnace slags rich in the compound.
Izv.Sib.otd.AB SSSR no.2:19-28 *59. (MIRA 12:7.)

(Alumina) (Slag)

MOLEVA, N.G.; IVAHOV, A.I.; EHDDAI, L.P.

Effect of the calcium oxide content on the structure and properties of easily crumbling aluminum-calcium slags. Izv. Sib. otd. AN SSIR no.8: 58-61 '59.

1.Ural'skiy filial AN SSSR.

(Slag)

KHODAK, L.P.; VARLAMOVA, N.N.; KOZHEVNIKOV, G.N.

Extraction of alumina and alkali from sinters obtained in the reduction smelting of red muds. Izv. Sib. otd. AN SSSR no.7: 64-70 *62

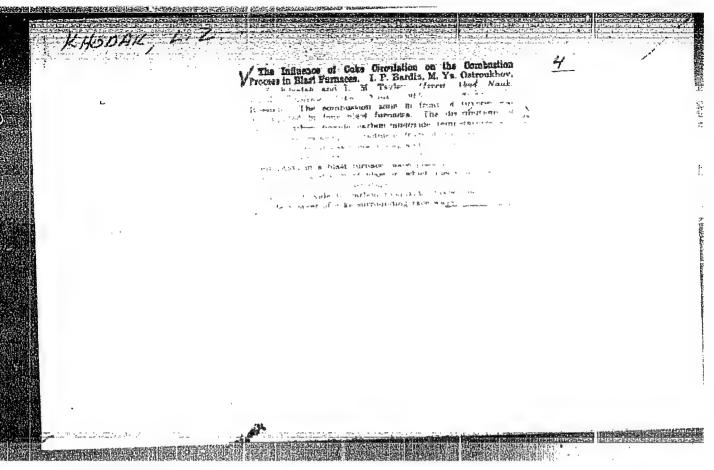
l. Ural'skiy filial AN SSSR, Sverdlovsk.

GRIZINOV, V.K., akademik; MIKHAYLOV, V.V., akademik; KHODAK, L.F., kand. tekhn.nauk; MIKHAYLOV, S.V.; RAKHIMOV, A.R.; NIKITIN, G.M.

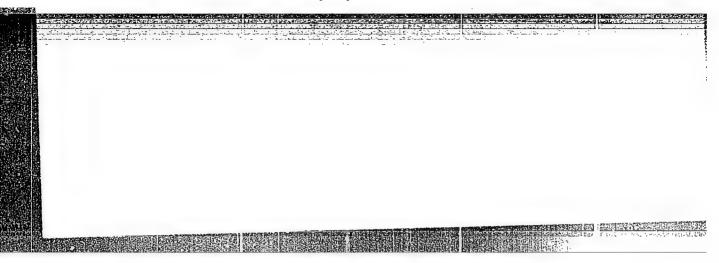
Utilization of the brown ores of the Lisakov deposit. Vest.
AN Kazakh. SSR 21 no.11:9-13 N '65.

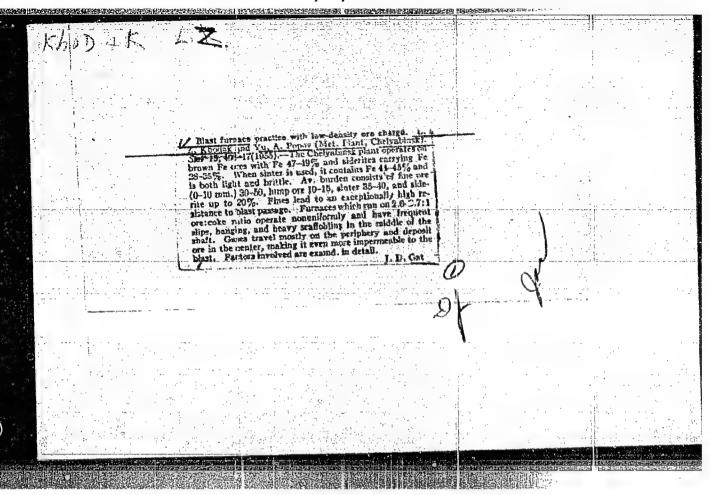
(MIRA 18:12)

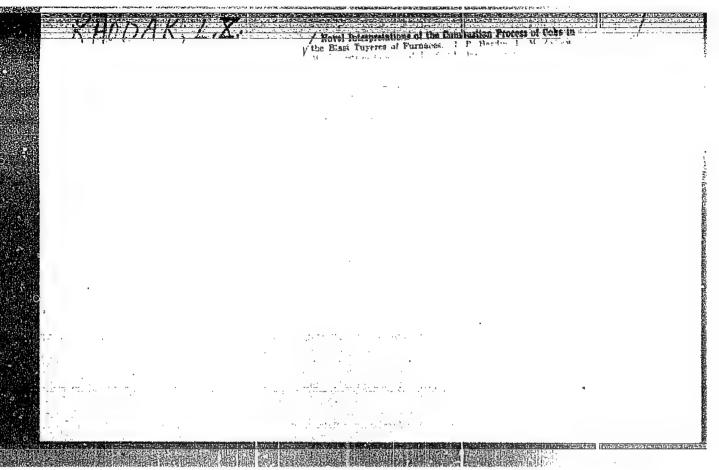
1. Akademiya nauk Kazakhskoy SSR (for Gruzinov, Mikhaylov, V.V.).

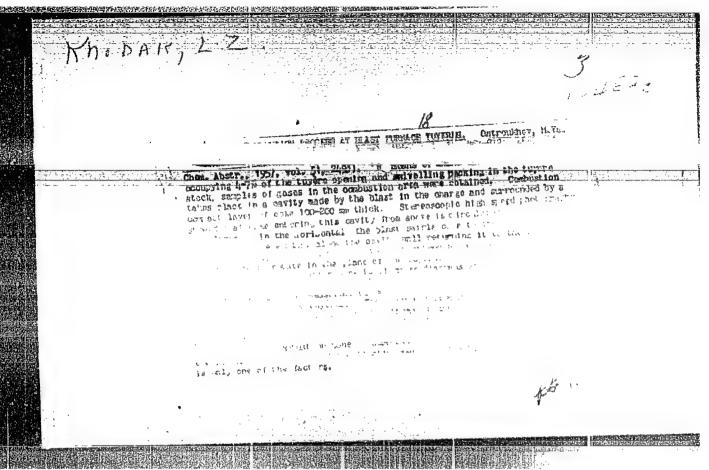












OSTROUKHOV, M.Ya., kandidat tekhnicheskikh mauk; KHODAK, L.Z.; LERRDEV, V.V.

Cinomategraphic study of the process of cole burning. Prirods 45 no.7: 78-81 Jl 156. (MIRA 919)

1.Institut metallurgii imeni A.A.Baykeva Akademii nauk SSSR, Meskva (for Khedak).2.Laberateriya nauchne-prikladney fetegrafii kinepategrafii Akademii nauk SSSR, Moskva (for Lebedev).

(Coloo) (Combustion) (Cinemategraphy--Scientific applications)

KHODAK, L.Z.

137-1958-2-2393

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 27 (USSR)

AUTHORS: Bardin, I.P., Tsylev, L.M., Ostroukhov, M.Ya., Khodak, L.Z.

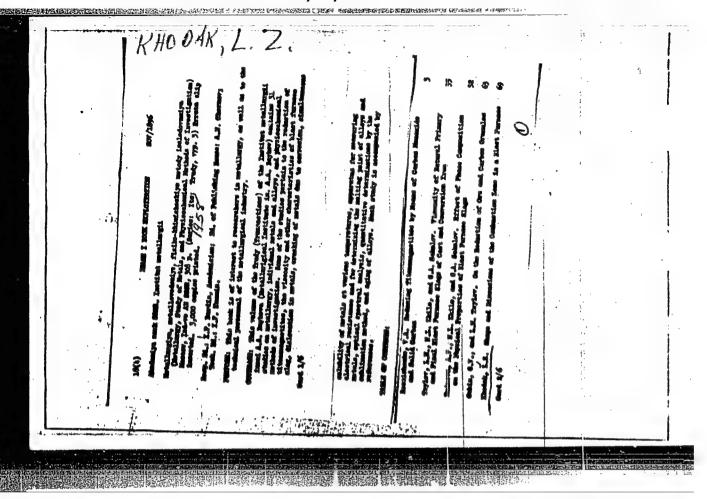
On the Process of Coke Combustion at the Tuyeres of a Blast Fur-TITLE: nace (O protsesse goreniya koksa u furm domennoy pechi)

Tr. In-ta metallurgii AN SSSR, 1957, Nr 2, pp 3-8 PERIODICAL:

In 1954-55, in different regions of the Soviet Union, a study ABSTRACT: was made on six blast furnaces having effective volumes of 330--1386 m3. Gas samples were taken along the axis and above and below tha axis of a tuyere. The diagram depicting the change in gas composition in the combustion zone differed markedly from the "classical diagram." From the path of the isorithmic lines for CO2, CO, and O2 in a vertical plane it was possible to establish the direction of the blast and the pattern of circulation of the coke particles. These experiments led to the conclusion that combustion of the coke does not occur in the bed layer but inside the blast. In addition, the focal combustion zone was found to be distributed along a spherical surface nearly at the boundary of the combustion zone. The length of the oxidation zone was determined hasically by the kinetic energy of the blast and did not depend appreciably on other factors.

Card 1/1°

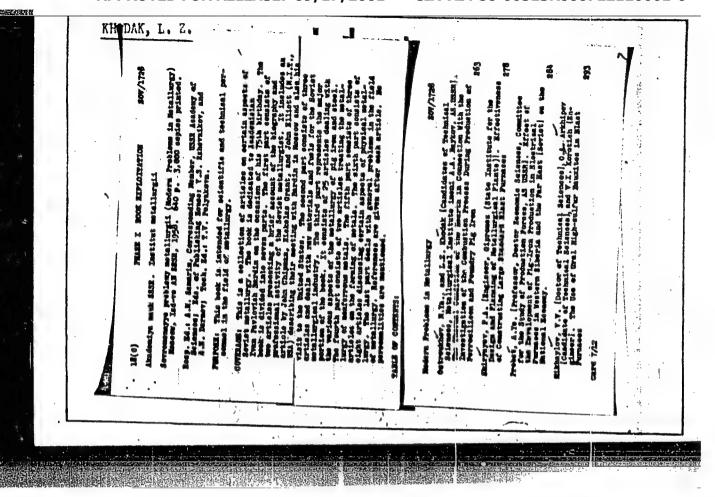
1. Coke-Combustion 2. Blast furnaces-Applications



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KHODAK, L. Z., Candidate of Tech Sci (diss) -- "Processes occurring in the combustion zone of a blast furnace". Moscow, 1959. 26 pp (Acad Sci USSR, Enst of Metallurgy im A. A. Baykov), 150 copies (KL, No 21, 1959, 117)

TSYLEY, Leonid Mikhaylovich; OSTROUKHOY, Mark Yakovlevich; KHODAK,
Leonid Zalmanovich; ZINGER, S.L., red.ixd-va; ATTOPOVICH,
M.K., tekhn.red.

[Process of coke combustion in blast furnaces] Protsess goreniia koksa v domennoi pechi. Moskva, Gos.izd-vo lit-ry po chernoi i tavetnoi metallurgii, 1960. 98 p.

(NIRA 13:5)

(Blast furnaces-Combustion) (Coke)

RAZILEVICH, Sergey Vladimirovich; LAZAMEV, Boris Leonidovich; STARINOV,
Modest Andreyevich; OCLOSKOV, Boris Viktorovich; RULIKOV, I.S.,
kand, tekhn.neuk, retisensents; EHOMA, L.Z., red.; CHAPATKINA,
F.K., red.isd-ve; NATLYUK, R.W., vekhn.red.

[Methods for experimental investigation of the blast-furnace
process] Metody eksperimental nogo issledovaniis domennogo
protsesse, Sverdlovak, Gos.nauchno-tekhn.isd-volit-ry po
chernol i tavetnol metallurgii. Sverdlovakoe otd-nie, 1960.

(Elest furnaces) (Cast iron-Metallurgy)

(Cast iron-Metallurgy)

OSTROUKHOV, M.Ya. (Chelyabinak), KHUDAK, L.Z. (Moskva)

Analysis of the coke combustion process in blast furnaces by furnace gas constitution diagrams. Ixv. AN SSSR. Otd. tekh. nauk. Met. i topl. no.6:5-13 M - D ¹60. (MIRA N3:12)

(Blast furnaces—Combustion)

AUTHORS: Dashevskiy, Ya.I., and Khodak, L.Z.

TITLE: All-Soviet Meeting of Furnacemen and Agglomeration Workers

PERIODICAL: Stal', 1960, No. 12, pp. 1156-1157

TEXT: The All-Soviet Meeting of Furnacemen and Agglomeration Workers convened by the State-Plan Committee of the Council of USSR Ministers, the State Scientific Research Committee of the Council of USSR Ministers and the Scientific-Technical Association of Iron and Steel Metallurgy was held in Magnitogorsk from 25 to 29 October 1960. All the Soviet metallurgical plants, scientific research institutes and planning bureaus were represented at the meeting. Presidential address was given by P.I. Korobov, Vice-President of the CHTK (GNTK) of the USSR Council of Ministers and dealt with the present state of the blast furnace and agglomeration industry in the Soviet Union. The main topics of the section "ore-dressing and agglomeration" were: intensification of agglomeration and improving the quality of the agglomerate; application of heated and oxygen-enriched air in the agglomeration of iron ores; cooling the aggregates; introducing the most up-to-date types of agglomerating equipment; automation of agglomeration; developing pelletisation. Besides general remarks made to stress the need of improving enriching and agglomeration and more Card 1/5

All-Soviet Meeting of Furnacemen and Agglomeration Workers

efficient machinery for these processes, it was proposed that: the upper limit of particle size of the agglomerated ore be lowered to 6-8 mm, that of fixel and fluxes for agglomeration to 1 mm; a uniform quality of ores and concentrates, fuels and fluxes be produced; the amount of lime in the agglomeration charge be raised to 4-5%; the process of lime calcination be intercalated in the agglomeration technology; the weight system be introduced in the dosage of the charge and all plants be supplied with the appropriate equipment between 1961 and 1963; the mixing of agglomerate charge be improved through two-stage mixing, the mixing drums extended, etc; the amount of air pumped through the agglomeration charge be increased to 1003/m2 of agglomerate; the agglomerizing equipment be fed with two charges having different fuel contents in the beds; hot air and combined heating be applied during agglomerization; special cooling equipment be constructed for the production of agglomerization fuel from weakly agglomerizing coal and peat; the agglomerate be air-cooled by forced draft, two agglomerizing machines with automatic control be installed; high-capacity agglomorating machines be designed and constructed, new technological processes be established, eto. With regard to blast furnaces the following problems were discussed: theoretical and experimental investigation of the combined blasting method;

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experiments with high-capacity blast furnaces and their auxiliary equipment; mechanization and automation of blast furnaces and their auxiliary equipment. It was emphasized that the Soviet Union was the first in the whole world to apply natural gas and that the combination of natural gas and oxygen blasting had improved the technical-economical conditions and reduced the coke-consumption considerably. In order to extend the use of natural gas, it was held necessary to make high-capacity oxygen equipment (units of 35,000 m3/hour capacity) at short notice. Another problem to be solved was the reconstruction of blast furnaces for operation at higher (1.5-1.8 atm) pressures. All new blast furnaces would have to be built for a volume of 2,000 m or more, and must operate with a pressure of 2.5 atm in the charging hole, utilizing the energy of pressureized top gas in turbine-distributors. In order to increase the efficiency of natural gas, equipment should be designed which automatically maintains the constant proportion between blast and natural gas blown through and moreover, insures a uniform distribution of blast and gas through the tuyeres. Practice shows that blast furnaces with a volume of 1,719 m3 operate satisfactorily; it is, therefore, justified to increase the blast furnace volume further. Among several recommendations for improving the furnace construction

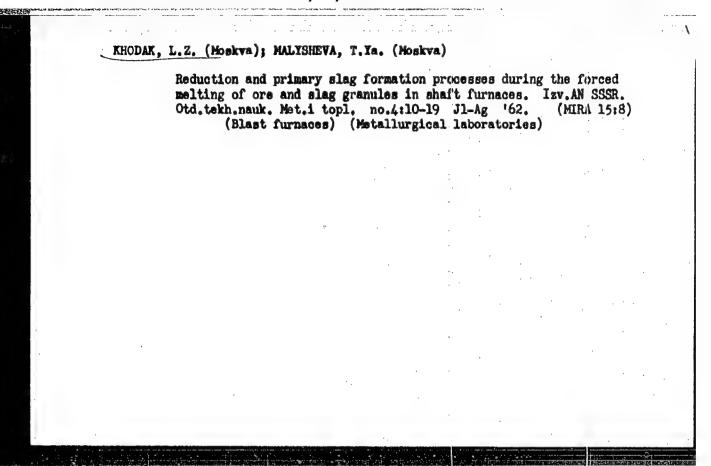
All-Soviet Meeting of Furnacemen and Agglomeration Workers

it was suggested that the burners of the air-heating system be provided with fans having a capacity of 70,000-80,000 m3/hour, valves constructed for the air heaters, capable of operating with the blast heated up to 1,200°C, at a pressure of 4.2 atm and equipment provided for mixing, sieving, weighing and loading the charge with the aid of vibrating screens, conveyors and stationary weighers. It was found that the present state of automatization of blast furnace operation was unsatisfactory. More attention should be paid in this respect to insuring a uniform quality of the charge and a high degree of stability of furnace operation. It was pointed out that the mechanization of heavy labor in the furnace chamber did not keep pace with the increase in furnace volume. A special institute for planning the mechanization of these operations was recommended. To improve labor conditions a number of proposals was made: special equipment for changing the tuyères and slag apparatus, remote-control of charge-feeding, delivery of the charge by conveyors, hydraulic dust removal from the bunker area, pneumatic transport of dust from the collectors. For the scientific research institutes the most important tasks are: to establish the optimum methods for utilizing reducing gases, liquid fuels and oxygen, the optimum heat conditions of blast and gas pressure in the charging hole, suitable basicity of the Card 4/5

All-Soviet Meeting of Furnacemen and Agglomeration Workers

slag which would make it possible to melt low-sulphur irons. Methods should be established for desulphurization of iron outside the furnace and for refining the iron in the furnace chamber. Turbine distributors should be constructed for utilizing excess pressure and the excess furnace gas; methods should be invented to increase the useful life of the furnace installation, refractory material of longer useful life should be established, equipment for grading the agglomerate and coke into fractions before loading, equipment for processing the slag at the blast furnace with mechanical collection of the semi-finished product (without laddes) should be constructed.

Card 5/5



Spread of combustion zones in blast furnaces. Trudy Inst. met.
no.11:16-30 '62. (MIRA 16:5)

(Blast furnaces--Combustion)

CHERNYSHEV, A.M.; GESS, B.A.; KANAVETS, P.I.; MELENT'YEV, P.N.;

KHODAK, I.Z.; SOKOLOV, G.A.; BORISOV, Yu.I.; CHERNYKH, V.I.;

Prinimali uchastiyo: VAVILOV, N.S.; MAKARCHENKO, V.G.;

KISELEV, G.P.; VOLNISTOVA, R.A.; MOREYEVA, G.R.

Testing granules made by the method of chemical catalysis in a laboratory shaft furnace. Trudy IGI 22:70-78 '63.

(MIRA 16:11)

KHODAK, L.Z.; MALYSHEVA, T.Ya.

Changes in phase composition and the muchanism of primary slag formation during the melting of ore-fuel granules.

Trudy IGI 22:79-92 *63. (MIRA 16:11)

MALYSHEVA, T.Ya. (Moskva); KHODAK, L.Z. (Moskva)

Reduction and primary slag formation during the smelting of raw material prepared for blast fur no smelting. Izv. AN SSSR, Met. i gor. delo no.6:41-47 N-D '64. (MIRA 16:3)

BORISOV, Yu.I. (Moskva); KHODAK, L.Z. (Moskva)

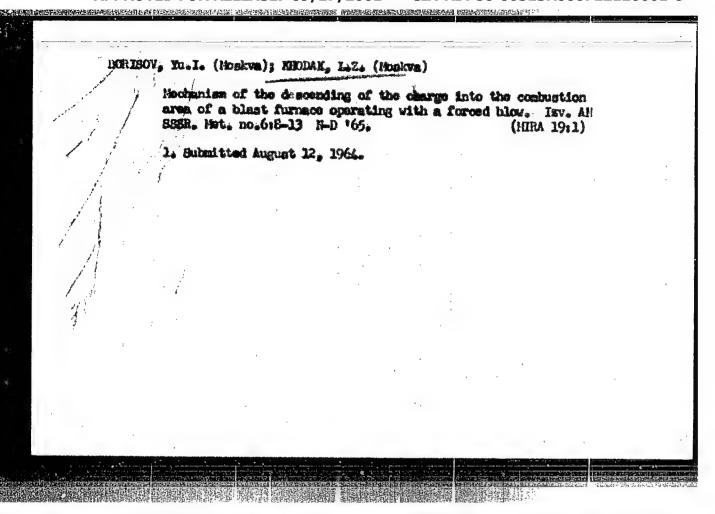
Certain regularities of the charge movement in blast furnaces. Izr.
AN SSSR. Met. no.3:3-10 My-Je '65. (MIRA 18:7)

BORISOV, Yu.I.; KHODAK, L.Z.

Mechanism of the flow of loose materials through an outlet. Inzh.-fiz.

zhur. 8-mo.6r712-719 Je '65.

1. Institut metallurgii imeni Baykova, Moskva.



WAISIMUK, P.S.; RECORK, R. Use of blowers for feeding carbon dionide gas to saturators. Sakh. prom. 31 no.2:45-46 F '57. 1. Kupyanskiy sakharnyy savod. (Blowers) (Carbon dioxide) (Sugar machinery)

KHODAK, P.A.; RUVINSKAYA, I.N., Blyces, TS.M. Utilizing spent alkali in the thylix process for gas purification.

Gas.prom. 4 no.8:17-18 Ag *59.

(Gorlovka--Gas purification)

(MIRA 12:11)

Recovery of monoethanolamine after the purification of coke-oven gas. Ehim. prom. no. 6:511 8 '60. (MIRA 13:11)

1. Gorlovskiy asotno-tukovyy zavod.
(Tthanol) (Coke-oven gas)

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Fuel Abst.
Vol. 15 No. 4
Apr. 1954
Natural Solid Fuels:
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Winning

Apr. 1964

Natural Solid Fuels:

Winning

Natural Solid Fuels:

Natural Solid Fu

KHODAK, V.

Our present-day plans. Sil'. bud. 13 no.11:11-13 N '63:
(MIRA 17:1)

1. Predsedatel' soveta Pogrebeshchenskoy mezhkolkhoznoy
stroitel'noy organizatsii Vinnitskoy oblasti.

78304 5.3610 sov/79-30-3-58/69

Nikolenko, L. N., Karpova, Ye. N., Khodak, V. A., Chirakadze, G. G., Borovik, V. P. AUTHORS:

Investigation of Aromatic Compounds With a Long Side Chain. III. Reduction of Alkyl 4-Aminophenyl Ketones TITLE:

According to Modified Kishner's Method

Zhurnal obshchey khimii, 1950, Vol 30, Nr 3, pp 1028-PERIODICAL:

1031 (USSR)

This is a continuation of the previous work (L. N. ABSTRACT:

Nikolenko, K. K. Babiyevskiy, ZhOKh, 25, 2231, 1955) on preparation of aniline homologs according to the

following scheme:

NH₂ RCO

Card 1/6

Investigation of Aromatic Compounds With a Long Side Chain. III. Reduction of Alkyl 4-Aminophenyl Ketones According to Modified Kishner's Method 78304 \$09/79-30-3-58/69

A series of alkyl 4-chlorophenyl ketones (see Table 1) was obtained by the condensation of aliphatic acid chlorides with chlorobenzene in the presence of AlCl₃. The reaction mixture was kept for 2 hr at 20-22° and 1 additional hr at 100°. The alkyl 4-aminophenyl ketones shown in Table 2 were obtained by ammonolysis of the corresponding alkyl 4-chlorophenyl ketones. 4-Alkylanilines shown in Table 3 were obtained by reduction of the corresponding alkyl 4-aminophenyl ketones with hydrazine hydrate according to the modified Kirshner method. There are 3 tables; and 9 references, 1 U.S., 3 U.K., 2 Japanese, 3 Soviet. The 4 U.S. and U.K. references are: E. Cline, E. Reid, J. Am. Chem. Soc., 49, 3152 (1927); G. Baddeley, J. Kenner, J. Chem. Soc., 303 (1935); W. J. Hickinbottom, A. C. Waine, J. Chem. Soc., 1558 (1930); W. J. Hickinbottom, J. Hickenbottom, J. Chem. Soc., 1119 (1937).

Card 2/6

78304, sov/19-30-3-58/69

Table 1. Alkyl 4-chlorophenyl ketones p-RCOC $_6$ N $_4$ Cl. Key: (a) Yield (%); (b) mp; (c) mp of 2,4-dinitrophenyl-hydrazone.

| R | a | Ь | c |
|---|-------------------------|-----------------------------|----------------------------|
| ente e conver i en elemañona limbara elemaño. | i propinsi di della pre | Arrivotamente da er titolom | a Activismos attendidadens |
| C_4H_0 | 80 | 3232.5 | 175—175.3° |
| C ₀ 11 ₁₃ | 94 | 64.565.5 | . 150151 |
| C ₅ II ₁₇ | 97 | 58-58.5 | 134—135 |
| C101121 | 98 | 46.5-47 | 103.5104.5 |
| C14H20 C16H21 | 81 91 | 51.552 69.570 | 80.3-80.7 100-100.6 |

Card 3/6

78304, sov/79-30-3-58/69

Table 2. Alkyl 4-aminophenyl ketones p-RCOC₆H_{μ}NH₂. Key: (a) Yield (%); (b) mp.

| R | a | Participation of the same of the control of the |
|---------------------------------|----|---|
| C ₆ H ₁₅ | 95 | 90—90.5 |
| C ₈ H ₁₇ | 98 | 91—9 2 |
| C ₁₀ H ₂₁ | 98 | 101.5-102 |
| C ₁₃ H ₂₇ | 98 | 101-101.5 |
| C ₁₄ H ₂₉ | 95 | 102-102.5 |
| C ₁₅ H ₃₁ | 95 | 99-100 |

Card 4/6

78304, sov/79-30-3-58/69

Table 3. 4-Alkylanilines p-RC₆H_{μ}NH₂. Key: (a) Yield (%); (b) bp (pressure in mm) and mp.

| R | a | Ь |
|--|----------------|---|
| C ₀ H ₁₀ C ₁₁ H ₂₃ C ₁₄ H ₃₀ | 80 85 98 | 194—196 (10) 167—168 (3) mp 19.5—20 mp 44,5—15 |

Card 5/6

Investigation of Aromatic Compounds With a'Long Side Chain. III. Reduction of Alkyl 4-Aminophenyl Ketones According to Modified Kishner's Method

78304 \$0V/79-30-3-58/69

ASSOCIATION:

D. I. Mendeleye Moscow Institute of Chemical Technology (Moskovskiy khimiko-tekhnologicheskiy institut imeni

D. I. Mendeleyeva)

SUBMITTED:

January 12, 1959

Card 6/6

KHODAK, V.M., inzh.

Reduction of physical and mechanical indices of slabs to comparable values. Der. prom. 10 no.7:14 J1 '61. (MIRA 14:7) (Hardboard—Testing)

DRUZHININ, V.N.; FEDORISHCHEV, T.I.; KHODAK, V.M.; OSHURKOVA, I.K. Use of hydrophobic additions obtained from turpentine industry wastes in the manufacture of particle boards. Der.prom. 11 no.1:25-26

DESTRUMBED TO THE PROPERTY OF THE PROPERTY OF

(MIRA 15:1) Ja '62.

(Hardboard)

KHODAK, Yu.A.

Bitumen stratification in Cambrian deposits in the Aldan District, Yakut A.S.S.R. Dokl.AN SSSR. 105 no.3:564-565 N '55. (MLRA 9:3)

1. Institut geologicheskikh nauk Akademii mank SSSR. Predstavleno akademikom W.S. Shatskim.

(Aldan District--Bitumen)

KHODAK

Geochemistry. Hydrochemistry. USSR/Cosmochemistry.

Abs Jour

: Ref Zhur - Khimiya, No. 8, 1957, 26560.

Author

Lyov University .- Inst. Seol. Sci AS USSR, Misson

Inst

: Secondary Alterations of Lower Cambrian Rocks

Title

in Aldanskiy Region of Yakut ASSR.

Orig Pub

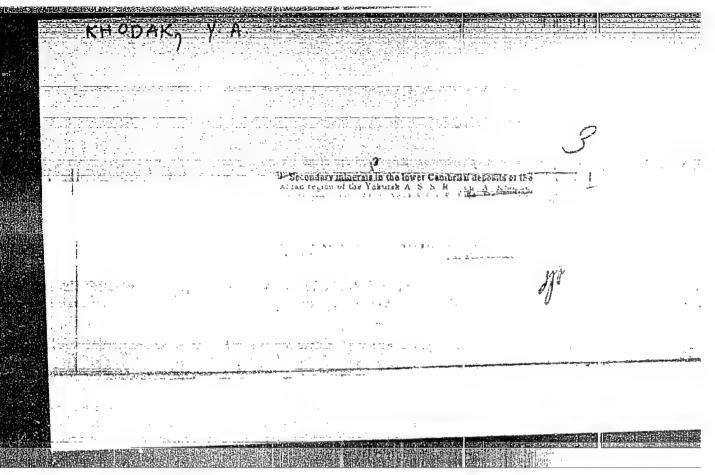
Vopr. mineralogii osadoch. obrazovaniy. Kn. 3-4, L'vovsk. un-t, 1956, 468 - 485.

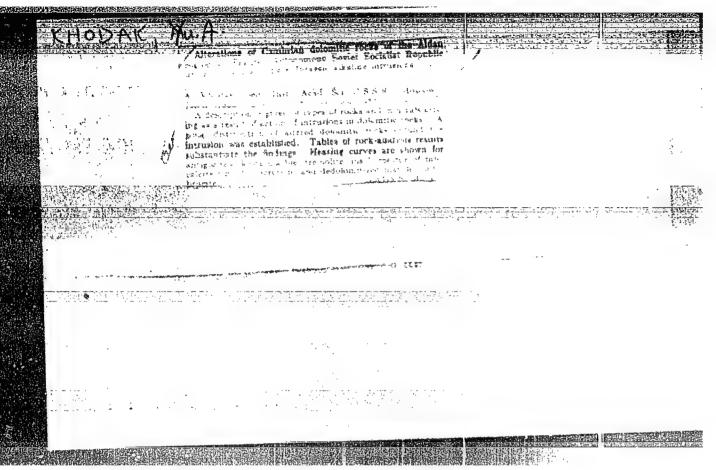
Abstract

Some newly formed minerals were discovered at the study of alteration of sedimentary rocks, which have not been subject to the action of intrusions. Quartz and chalcedony were produced in the results of consentration of the original SiO₂ and of its transfer into the rock layers. rock layers. Argillaceous minerals served as sources of K for the formation of felspars.

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USSR/ Geology
Card 1/1 Pub. 22 - 41/54
Authors : Khodak, Yu. A.

Title : Genesis of lower Cambrian dolomites of the Aldansk region of the Yakutsk-ASSR

Periodical : Dok. AN SSSR 106/2, 328-330, Jan 11, 1955
Abstract : Scientific data are presented on the genesis of lower Gambrian dolomites discovered in the Aldansk region of the Yakutsk ASSR. Thirtsen references:

11 USSR; 1 French and 1 Eng. (1911-1955).

Thatitution:

Presented by: Academician N. N. Strakhov, October 23, 1955

KHODAK, Yu.A.

On fluorite from Lower Cambrian rocks of the Aldan region of the Yakut ASSR. Dokl. AN SSSR 106 no.3:533-536 Ja 156. (MIRA 9:6)

1.Institut geologicheskikh nauk Akademii nauk SSSR. Predstavleno akademikom N.S.Shatskim. (Aldan region--Fluorite)

KHODAK, Yu.A.; MENYAYLOV, A.A., doktor gool.-mineral. nauk, otv. red.; SHLEPOV, V.K., red. 1zd-va; ASTAF'YEVA, G.A., tekhn. red.

[Petrographic and mineralogic characteristics of lower Cambrian mediments in Aldan District] Petrografo-mineralogichesknia kharakteristika nizhnekembriiskikh otlomenii Aldanskogo raiona. Moskva, Ied-vo Akad. nauk SSSR, 1960. 116 p. (MIRA 14:5)

(Aldan District--Petrology)

KHODAK, Yu.A.; SUN' SHU [Sun shu]

Main structures of northeastern China and the adjacent territory of the Soviet Far East. Izv.AN SSSR. Ser.geol.26 no.10:97-110 10 161. (MIRA 14:9)

1. Sovet po izucheniyu proizvoditel'nykh sil Gosudarstvennogo naucho-ekonomicheskogo soveta Soveta Ministrov SSSR, Moskva.

(China-Geology, Structural)

(Soviet Far East-Geology, Structural)

KHODAK, Yu.A.: CHEOBOTAREV, M.V.

Genesis of Sinaean magnesite rocks in the Lesser Khingan Mountains. Dokl.AN SSSR 138 no.1:184-187 My-Je '61. (MIRA 14:4)

1. Sovet po izucheniyu proizvoditel'nykh sil AN SSSR i Dal'nevestechneye geologicheskoye upravleniye. Predstavleno akademikom D.S.Korzhinskim. (Lesser Khingan Hountains--Hagnesite)

Sequence and age of ancient formations in the Soviet Far East and adjacent regions of North China. Sov.geol. 4 no.12:96-106 D'61. (MIRA 15:2) 1. Akademiya nauk SSSR. (Soviet Far East—Geology, Stratigraphic) (China—Geology, Stratigraphic)

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ACCESSION NR: AP4009628

\$/0293/63/001/003/0460/0464

AUTHOR: Khodak, Yu. A.; Kozlov, V. V.; Tomson, I. N.; Khoroshilov, L. V.

TITLE: Significance of geographic and geological methods in lunar studies

SOURCE: Kosmicheskiye isaledovaniya, v. 1, no. 3, 1963, 460-464

TOPIC TAGS: lunar research, lunar geological study, lunar geographic study, lunar structure, lunar relief, lunar history, meteorite lunar theory, astronomy, moon

ABSTRACT: The report offers a brief review of lunar research to date, clarifies the significance of geographic and geological methods for future studies of lunar structure and relief, proposes close coordination of such methods (giving consideration to comparative terrestrial material) with astronomical methods, evaluates various studies of geographic and geological aspects completed thus far, and discusses the meteorite approach to an explanation of the evolution of lunar structure and relief. It is suggested that it will be impossible to clarify the origin of lunar structures and relief, or their pattern of distribution, without the participation of geologists, nor will it be feasible to compile adequate topographic, geographic or selenological-geological charts or diagrams. "The authors acknowledge the contribution of Dr. A. G. Masevich in posing the problem". Orig. art.

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ACCESSION NR: AP/1009629

8/0293/63/001/003/0465/0471

AUMIOR: Khodak, Yu. A.

TITIE: The most important structural elements of the Moon

SOURCE: Kosmicheskiye issledovaniya, v. 1, no. 3, 1963, 465-471

TOPIC TAGS: moon, moon structural elements, lumar topography, albedo, lumar albedo, lumar relief, moon map

ABSTRACT: The character and location of lunar topographic features are analyzed to trace the principal structural elements of the Moon. Recent photographs, maps, and other data on lunar relief are employed. The paper focuses on three fundamental structural elements said by the author to have been formed about 300 million years ago: 1) a meridionally extended ancient massif embracing the restern portion of the far side and the southern portion of the visible side; 2) the Great Belt of large depressions (seas) located within the massif and extending convexly in the form of a semi-circle to the north pole from the South Sea to the Sea of Moisture; 3) the meridional belt of large depressions of the far side of the Moon, located on the edge of an uncharted lunar area. Within these, it is possible to

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